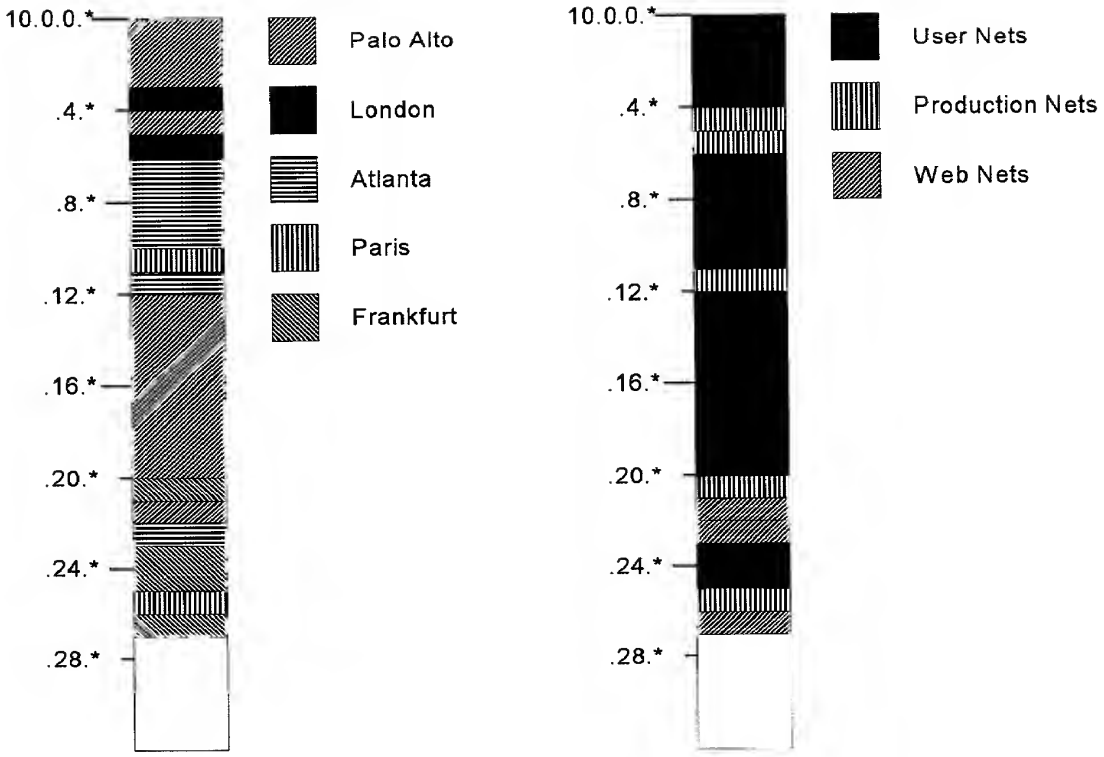
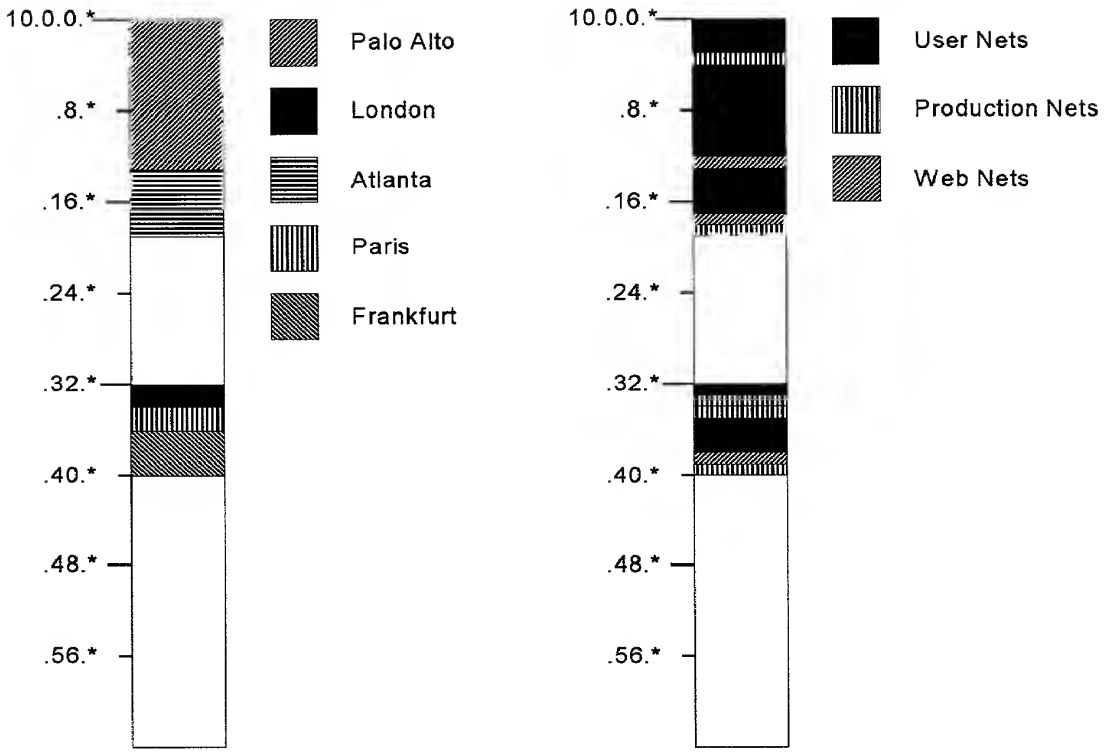


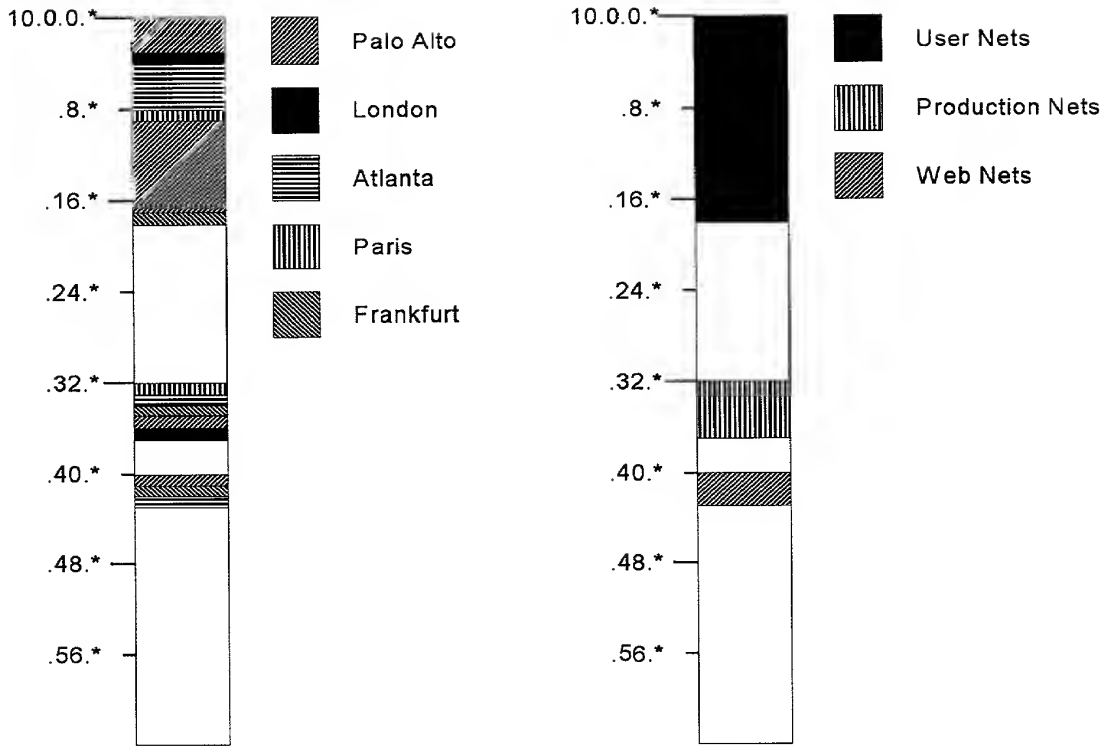
PRIOR ART

FIG. 1



PRIOR ART

FIG. 2



PRIOR ART

FIG. 3

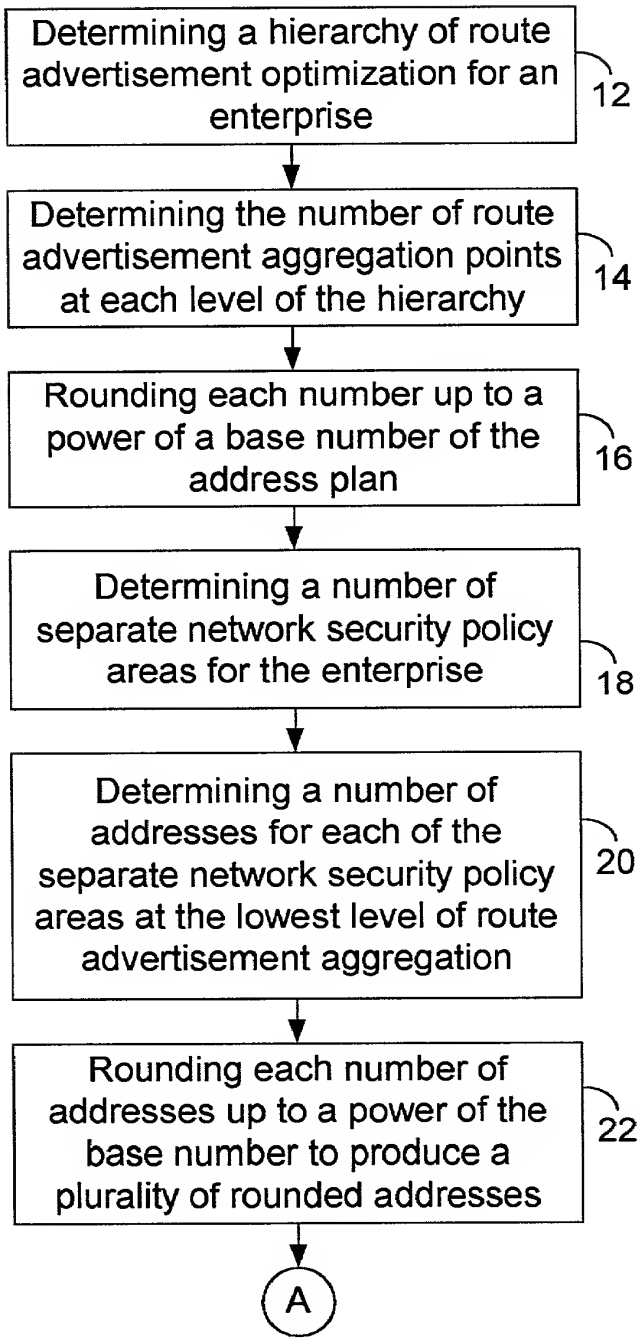

Determining a hierarchy of route advertisement optimization for an enterprise
12
Determining the number of route advertisement aggregation points at each level of the hierarchy
14
Rounding each number up to a power of a base number of the address plan
16
Determining a number of separate network security policy areas for the enterprise
18
Determining a number of addresses for each of the separate network security policy areas at the lowest level of route advertisement aggregation
20
Rounding each number of addresses up to a power of the base number to produce a plurality of rounded addresses
22
A

FIG. 4

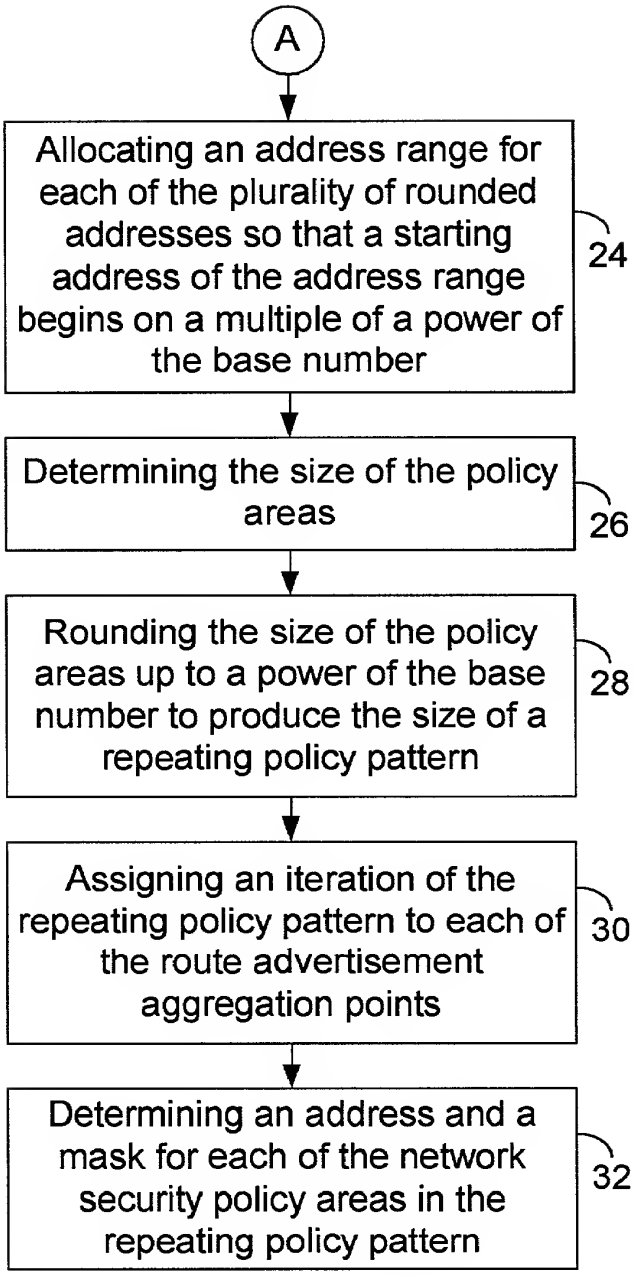

A
Allocating an address range for each of the plurality of rounded addresses so that a starting address of the address range begins on a multiple of a power of the base number
24
Determining the size of the policy areas
26
Rounding the size of the policy areas up to a power of the base number to produce the size of a repeating policy pattern
28
Assigning an iteration of the repeating policy pattern to each of the route advertisement aggregation points
30
Determining an address and a mask for each of the network security policy areas in the repeating policy pattern
32

FIG. 4

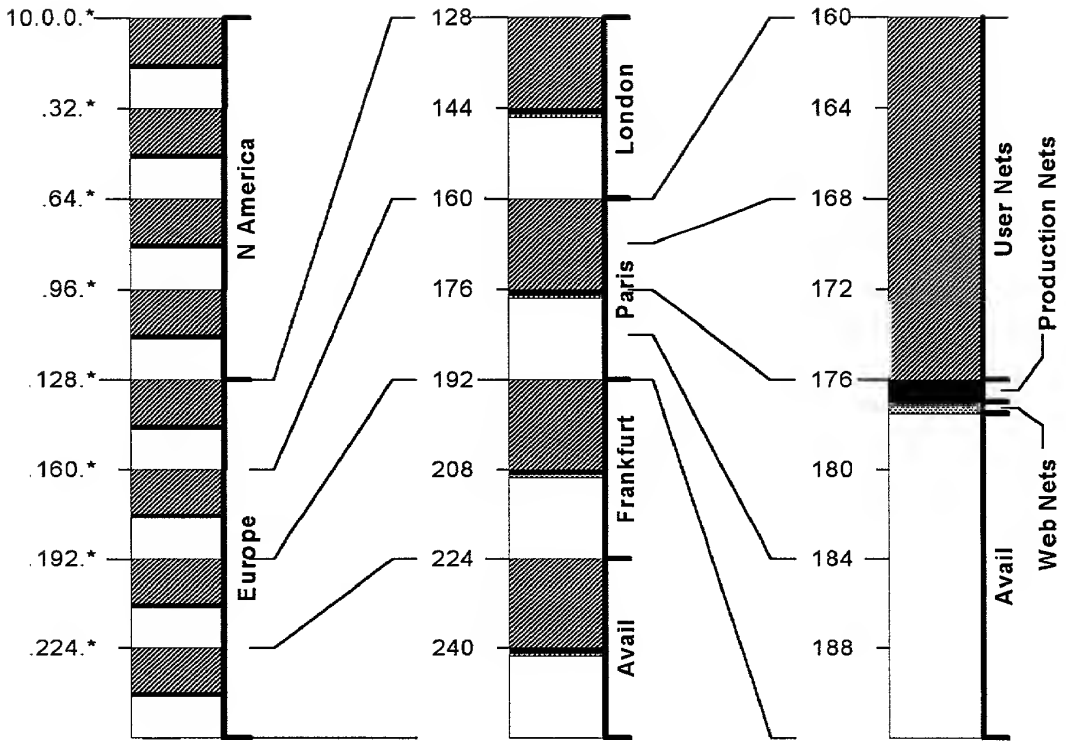

10.0.0.*
.32.*
.64.*
.96.*
.128.*
.160.*
.192.*
.224.*
N America
Europe
128
144
160
176
192
208
224
240
London
Paris
Frankfurt
Avail
160
164
168
172
176
180
184
188
User Nets
Production Nets
Web Nets
Avail

FIG. 5

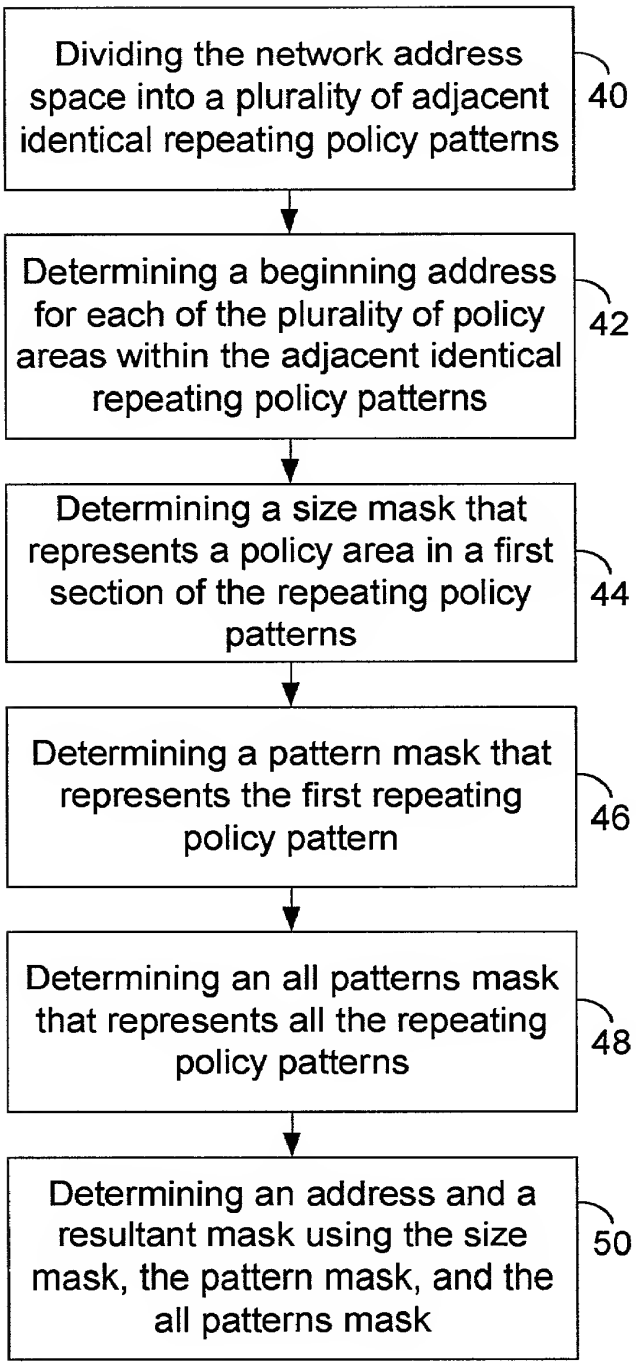

Dividing the network address space into a plurality of adjacent identical repeating policy patterns
40
Determining a beginning address for each of the plurality of policy areas within the adjacent identical repeating policy patterns
42
Determining a size mask that represents a policy area in a first section of the repeating policy patterns
44
Determining a pattern mask that represents the first repeating policy pattern
46
Determining an all patterns mask that represents all the repeating policy patterns
48
Determining an address and a resultant mask using the size mask, the pattern mask, and the all patterns mask
50

FIG. 6

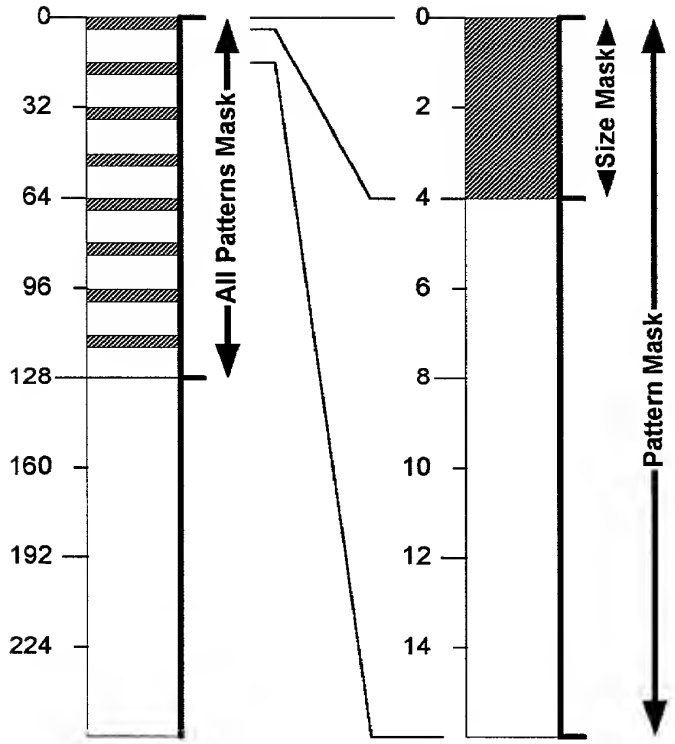

0
32
64
96
128
160
192
224
All Patterns Mask
0
2
4
6
8
10
12
14
Size Mask
Pattern Mask

FIG. 7

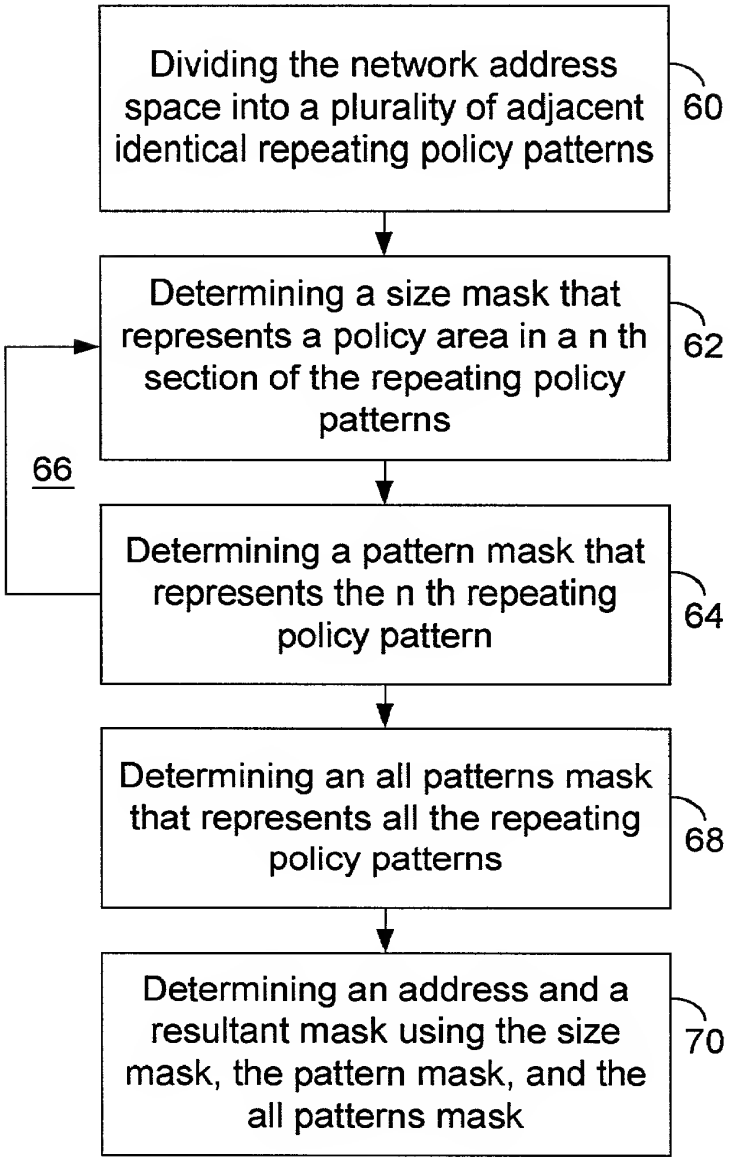

Dividing the network address space into a plurality of adjacent identical repeating policy patterns
60
Determining a size mask that represents a policy area in a n th section of the repeating policy patterns
62
66
Determining a pattern mask that represents the n th repeating policy pattern
64
Determining an all patterns mask that represents all the repeating policy patterns
68
Determining an address and a resultant mask using the size mask, the pattern mask, and the all patterns mask
70

FIG. 8

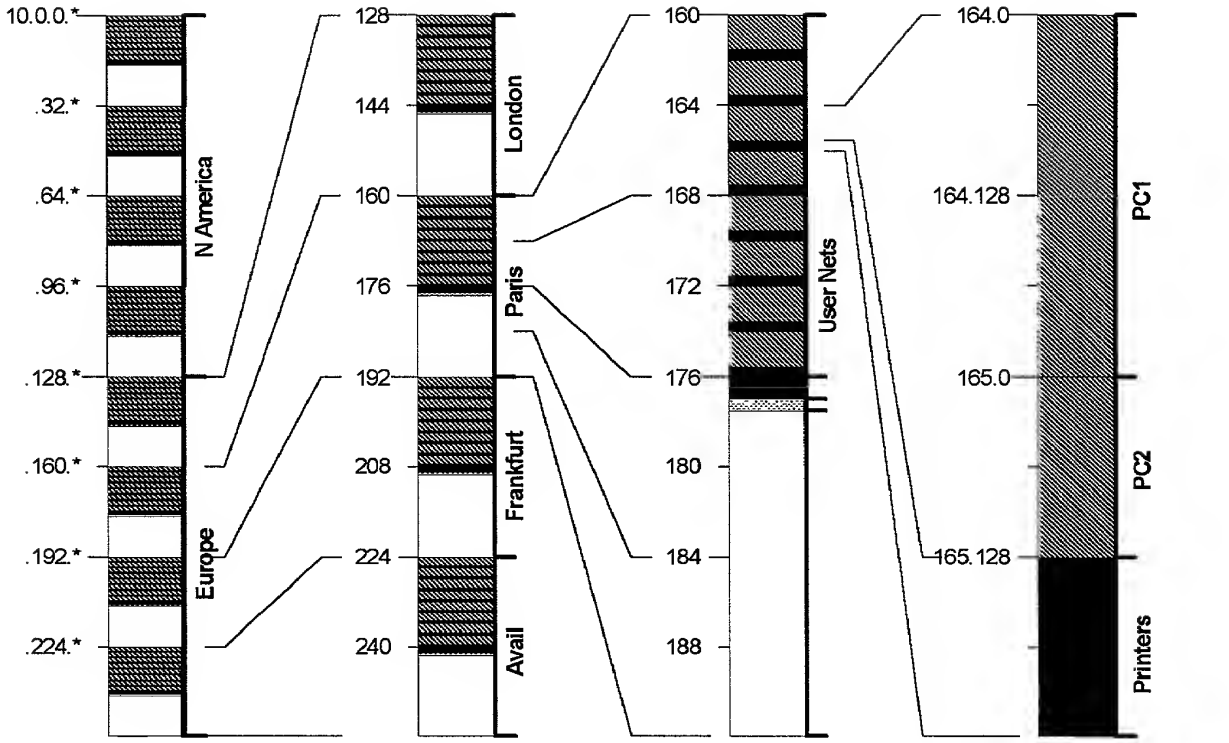

10.0.0.*
.32.*
.64.*
.96.*
.128.*
.160.*
.192.*
.224.*
N America
Europe
128
144
160
176
192
208
224
240
London
Paris
Frankfurt
Avail
160
164
168
172
176
180
184
188
User Nets
164.0
164.128
165.0
165.128
PC1
PC2
Printers

FIG. 9

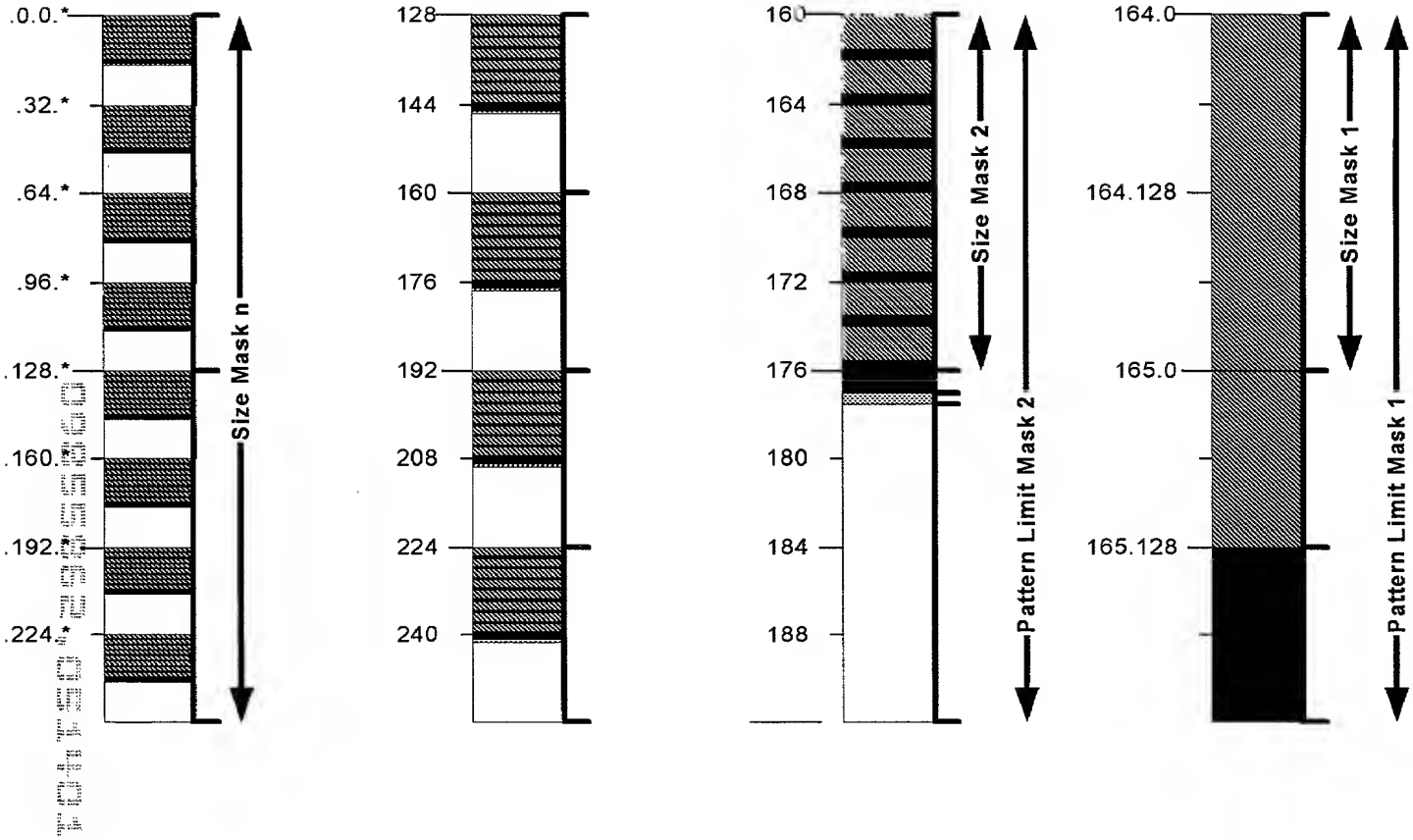

.0.0.*
.32.*
.64.*
.96.*
.128.*
.160.*
.192.*
.224.*
Size Mask n
128
144
160
176
192
208
224
240
160
164
168
172
176
180
184
188
Size Mask 2
Pattern Limit Mask 2
164.0
164.128
165.0
165.128
Size Mask 1
Pattern Limit Mask 1

FIG. 10